

ROUGH TERRAIN CRANE

TR-500M

JAPANESE SPECIFICATIONS

| OUTLINE | SPEC. NO. |
|-----------------------------|-----------------|
| 6-section Boom, 2-stage Jib | TR-500M-1-00102 |

Control No. JA-03

TR-500M

CRANE SPECIFICATIONS

CRANE CAPACITY

| | | | |
|-------------|----------|----------|----------------|
| 9.7m Boom | 45,000kg | at 3.5m | (11 part-line) |
| 16.0m Boom | 30,000kg | at 4.5m | (8 part-line) |
| 22.3m Boom | 20,000kg | at 5.0m | (5 part-line) |
| 28.6m Boom | 12,000kg | at 8.0m | (4 part-line) |
| 34.9m Boom | 10,000kg | at 7.0m | (4 part-line) |
| 38.05m Boom | 8,000kg | at 9.0m | (4 part-line) |
| 41.2m Boom | 6,000kg | at 11.0m | (4 part-line) |
| 7.8m Jib | 3,500kg | at 76° | (1 part-line) |
| 12.5m Jib | 2,500kg | at 76° | (1 part-line) |
| Single top | 4,000kg | | (1 part-line) |

MAX. LIFTING HEIGHT

| | |
|------|-------|
| Boom | 41.6m |
| Jib | 54.6m |

MAX. WORKING RADIUS

| | |
|------|-------|
| Boom | 34.0m |
| Jib | 40.0m |

BOOM LENGTH

9.7m – 41.2m

BOOM EXTENSION

31.5m

BOOM EXTENSION SPEED

31.5m / 123s

JIB LENGTH

7.8m, 12.5m

MAIN WINCH SINGLE LINE SPEED

| | | |
|-------------|----------|-------------|
| High range: | 124m/min | (5th layer) |
| Low range: | 62m/min | (5th layer) |

MAIN WINCH HOOK SPEED

| | | |
|-------------|-----------|----------------|
| High range: | 11.2m/min | (11 part-line) |
| Low range: | 5.6m/min | (11 part-line) |

AUXILIARY WINCH SINGLE LINE SPEED

| | | |
|-------------|----------|-------------|
| High range: | 124m/min | (5th layer) |
| Low range: | 62m/min | (5th layer) |

AUXILIARY WINCH HOOK SPEED

| | | |
|-------------|----------|---------------|
| High range: | 124m/min | (1 part-line) |
| Low range: | 62m/min | (1 part-line) |

BOOM ELEVATION ANGLE

0° – 83°

BOOM ELEVATION SPEED

0° – 83° / 68s

SWING ANGLE

360° continue

SWING SPEED

| | |
|-------------|---------|
| High range: | 2.4 rpm |
| Low range: | 1.5 rpm |

WIRE ROPE

Main Winch

18mm × 224m (Diameter × Length)
 7×7+6×Fi(29) Class C ordinary · Z twist
 Spin-resistant wire rope
 Breaking strength 24.3t

Auxiliary Winch

18mm × 120m (Diameter × Length)
 7×7+6×Fi(29) Class C ordinary · Z twist
 Spin-resistant wire rope
 Breaking strength 24.3t

BOOM

6-section hydraulically telescoping boom of hexagonal box construction
 (stages 2,3: synchronized; stages 4,5,6: synchronized)

BOOM EXTENSION

3 double-acting hydraulic cylinder
 2 wire rope type telescoping device

JIB

2-staged type which stores alongside below the base boom section and extendible from under the boom.
 Triple offset (5°, 25°, 45°) type

SINGLE TOP

Single sheave. Mounted to main boom head.

HOIST

Driven by hydraulic motor driven and via bevel gear reducer.

With free-fall device.

Automatic brake (with foot brake for free-fall device)

2 single winches

BOOM ELEVATION

2 double-acting hydraulic cylinders

SWING

Hydraulic motor driven planetary gear reducer

Swing bearing

High/Low speed selection

Swing free/lock changeover type

Hand brake

OUTRIGGERS

Fully hydraulic H-type (floats mounted integrally)

Slides and jacks each provided with independent operation device.

Full extended width 7.25m

Middle extended width 5.5m, 4.0m

Minimum extended width 2.57m

MAX. OUTRIGGER LOAD

39.2t

HYDRAULIC PUMPS

2 variable piston pumps

2 gear pumps

HYDRAULIC OIL TANK CAPACITY

650 liters

SAFETY DEVICES

Automatic moment limiter (AML)

Over-winding cutout

Working area control device

Winch drum lock

Level gauge

Hook safety latch

Hydraulic safety valve

Telescopic counterbalance valve

Elevation counterbalance valve

Jack pilot check valve

Swing lock

EQUIPMENTS

Heat pump type air-conditioner

Hydraulic oil temperature indication lamp

Radio

Oil cooler

Winch drum rotation indicator

Operation pedals for elevating/telescoping.

CARRIER SPECIFICATIONS**ENGINE**

Model NISSAN DIESEL MOTOR CO., LTD. PF6T
(with turbo charger)
Type 4-cycle, 6-cylinder, direct-injection, water-cooled diesel engine
Piston displacement 12,503cc
Max. output 290PS at 2,100rpm
Max. torque 122kg·m at 1,200rpm

TORQUE CONVERTER

3-element, 1-stage unit (with automatic lock-up mechanism)

TRANSMISSION

Automatic and manual transmission
Power shift type (wet multi-plate clutch)
3 forward and 1 reverse speeds (with Hi/Low settings)

REDUCER

Axle dual-ratio reduction

DRIVE

2-wheel drive (4×2) / 4-wheel drive (4×4) selection

FRONT AXLE

Full floating type

REAR AXLE

Full floating type (with no-spin differential)

SUSPENSION

Front Parallel leaf spring type
Rear Parallel leaf spring type

STEERING

Fully hydraulic power steering
With reverse steering correction mechanism

BRAKE SYSTEM

Service Brake
Hydro-pneumatic brake
Disk brake
Parking Brake
Mechanically operated, internal expanding duo-servo shoe type acting on drum at transmission case rear.
Auxiliary Brake
Electro-pneumatic operated exhaust brake.
Auxiliary braking device for operations

FRAME

Welded box-shaped structure

ELECTRIC SYSTEM

24 V DC. 2 batteries of 12V (120Ah)

FUEL TANK CAPACITY

300 liters

TIRES

Front 18.00R25☆☆(OR)
Rear 18.00R25☆☆(OR)

CAB

Two-man type
With sun visor and trim
Rubber mounted type
Fully adjustable seat (with headrest and seat belt)
Adjustable handle (tilt, telescoping)
Roof windshield lock warning

SAFETY DEVICES

Emergency steering device
Spring lock device
Rear wheel steering lock device
Engine over-run alarm
Overshift prevention device
Parking brake alarm

GENERAL DATA**DIMENSIONS**

| | |
|----------------|----------|
| Overall length | 11,930mm |
| Overall width | 3,000mm |
| Overall height | 3,770mm |
| Wheel base | 4,850mm |
| Tread Front | 2,430mm |
| Tread Rear | 2,430mm |

WEIGHTS

| | |
|----------------------|----------|
| Gross vehicle weight | |
| Total | 37,790kg |
| Front | 18,900kg |
| Rear | 18,890kg |

PERFORMANCE

| | |
|------------------------------|---|
| Max. traveling speed | 45km/h |
| Gradeability (tan θ) | 0.6 |
| Min. turning radius | 6.3m (4-wheel steering) 10.8m (2-wheel steering) |

| |
|--------------------------|
| TOTAL RATED LOADS |
|--------------------------|

(1) With outriggers set (360°)
[BOOM]

Unit : ton

| Outriggers fully extended (7.25m) | | | | | | | |
|-----------------------------------|-------|--------|--------|--------|--------|--------|--------|
| A B (m) | 9.7 m | 16.0 m | 22.3 m | 28.6 m | 34.9 m | 38.05m | 41.2 m |
| 2.5 | 45.0 | 30.0 | 20.0 | 12.0 | | | |
| 3.0 | 45.0 | 30.0 | 20.0 | 12.0 | | | |
| 3.5 | 45.0 | 30.0 | 20.0 | 12.0 | 10.0 | | |
| 4.0 | 39.5 | 30.0 | 20.0 | 12.0 | 10.0 | 8.0 | |
| 4.5 | 35.5 | 30.0 | 20.0 | 12.0 | 10.0 | 8.0 | |
| 5.0 | 32.0 | 28.0 | 20.0 | 12.0 | 10.0 | 8.0 | 6.0 |
| 5.5 | 29.0 | 26.0 | 19.8 | 12.0 | 10.0 | 8.0 | 6.0 |
| 6.0 | 26.5 | 24.1 | 18.7 | 12.0 | 10.0 | 8.0 | 6.0 |
| 6.5 | 24.0 | 22.4 | 17.6 | 12.0 | 10.0 | 8.0 | 6.0 |
| 7.0 | 22.0 | 20.6 | 16.7 | 12.0 | 10.0 | 8.0 | 6.0 |
| 8.0 | | 17.5 | 15.0 | 12.0 | 9.2 | 8.0 | 6.0 |
| 9.0 | | 14.2 | 13.4 | 11.5 | 8.5 | 8.0 | 6.0 |
| 10.0 | | 11.8 | 11.05 | 10.5 | 8.0 | 7.75 | 6.0 |
| 11.0 | | 9.8 | 9.2 | 9.5 | 7.6 | 7.25 | 6.0 |
| 12.0 | | 8.2 | 7.75 | 8.5 | 7.1 | 6.75 | 5.9 |
| 13.0 | | 7.0 | 6.6 | 7.4 | 6.7 | 6.3 | 5.5 |
| 14.0 | | | 5.65 | 6.5 | 6.3 | 6.0 | 5.2 |
| 16.0 | | | 4.15 | 4.9 | 5.3 | 5.3 | 4.6 |
| 18.0 | | | 2.95 | 3.75 | 4.15 | 4.4 | 4.1 |
| 20.0 | | | | 2.9 | 3.3 | 3.5 | 3.6 |
| 22.0 | | | | 2.2 | 2.6 | 2.8 | 2.95 |
| 24.0 | | | | 1.6 | 2.05 | 2.3 | 2.35 |
| 26.0 | | | | 1.0 | 1.6 | 1.85 | 1.95 |
| 28.0 | | | | | 1.2 | 1.4 | 1.6 |
| 30.0 | | | | | 0.8 | 1.0 | 1.2 |
| 32.0 | | | | | | 0.65 | 0.85 |
| 34.0 | | | | | | | 0.55 |

A = Boom length B = Working radius

[BOOM]

Unit : ton

| Outriggers middle extended (5.5m) | | | | | | | |
|-----------------------------------|-------|--------|--------|--------|--------|--------|--------|
| A B (m) | 9.7 m | 16.0 m | 22.3 m | 28.6 m | 34.9 m | 38.05m | 41.2 m |
| 2.5 | 45.0 | 30.0 | 20.0 | 12.0 | | | |
| 3.0 | 45.0 | 30.0 | 20.0 | 12.0 | | | |
| 3.5 | 41.0 | 30.0 | 20.0 | 12.0 | 10.0 | | |
| 4.0 | 36.8 | 30.0 | 20.0 | 12.0 | 10.0 | 8.0 | |
| 4.5 | 33.2 | 30.0 | 20.0 | 12.0 | 10.0 | 8.0 | |
| 5.0 | 30.2 | 26.0 | 20.0 | 12.0 | 10.0 | 8.0 | 6.0 |
| 5.5 | 25.2 | 23.0 | 19.8 | 12.0 | 10.0 | 8.0 | 6.0 |
| 6.0 | 21.0 | 20.7 | 18.7 | 12.0 | 10.0 | 8.0 | 6.0 |
| 6.5 | 18.2 | 18.0 | 16.8 | 12.0 | 10.0 | 8.0 | 6.0 |
| 7.0 | 15.5 | 15.2 | 15.1 | 12.0 | 10.0 | 8.0 | 6.0 |
| 8.0 | | 11.9 | 11.6 | 12.0 | 9.2 | 8.0 | 6.0 |
| 9.0 | | 9.5 | 9.15 | 10.2 | 8.5 | 8.0 | 6.0 |
| 10.0 | | 7.65 | 7.35 | 8.35 | 8.0 | 7.75 | 6.0 |
| 11.0 | | 6.25 | 6.0 | 6.95 | 7.0 | 7.25 | 6.0 |
| 12.0 | | 5.15 | 4.9 | 5.85 | 6.3 | 6.3 | 5.9 |
| 13.0 | | 4.2 | 4.0 | 4.95 | 5.5 | 5.5 | 5.5 |
| 14.0 | | | 3.25 | 4.2 | 4.75 | 4.8 | 5.0 |
| 16.0 | | | 2.05 | 3.0 | 3.55 | 3.6 | 3.8 |
| 18.0 | | | 1.05 | 2.1 | 2.65 | 2.7 | 2.9 |
| 20.0 | | | | 1.35 | 1.95 | 2.05 | 2.25 |
| 22.0 | | | | 0.7 | 1.3 | 1.5 | 1.7 |
| 24.0 | | | | | 0.8 | 1.0 | 1.2 |
| 26.0 | | | | | | 0.6 | 0.8 |

A = Boom length B = Working radius

[BOOM]

Unit : ton

| Outriggers middle extended (4.0m) | | | | | | | |
|-----------------------------------|-------|--------|--------|--------|--------|--------|--------|
| A B (m) | 9.7 m | 16.0 m | 22.3 m | 28.6 m | 34.9 m | 38.05m | 41.2 m |
| 2.5 | 40.0 | 30.0 | 20.0 | 12.0 | | | |
| 3.0 | 40.0 | 30.0 | 20.0 | 12.0 | | | |
| 3.5 | 33.4 | 30.0 | 20.0 | 12.0 | 10.0 | | |
| 4.0 | 26.5 | 27.0 | 20.0 | 12.0 | 10.0 | 8.0 | |
| 4.5 | 21.0 | 21.5 | 20.0 | 12.0 | 10.0 | 8.0 | |
| 5.0 | 17.4 | 17.4 | 17.0 | 12.0 | 10.0 | 8.0 | 6.0 |
| 5.5 | 14.6 | 14.5 | 14.2 | 12.0 | 10.0 | 8.0 | 6.0 |
| 6.0 | 12.5 | 12.2 | 12.0 | 12.0 | 10.0 | 8.0 | 6.0 |
| 6.5 | 10.5 | 10.5 | 10.4 | 11.3 | 10.0 | 8.0 | 6.0 |
| 7.0 | 9.0 | 9.1 | 9.0 | 10.0 | 9.5 | 8.0 | 6.0 |
| 8.0 | | 6.9 | 6.8 | 7.8 | 8.0 | 8.0 | 6.0 |
| 9.0 | | 5.4 | 5.25 | 6.2 | 6.65 | 6.7 | 6.0 |
| 10.0 | | 4.3 | 4.1 | 5.0 | 5.6 | 5.7 | 5.9 |
| 11.0 | | 3.4 | 3.15 | 4.05 | 4.65 | 4.75 | 5.0 |
| 12.0 | | 2.6 | 2.45 | 3.3 | 3.85 | 4.0 | 4.2 |
| 13.0 | | 1.85 | 1.75 | 2.7 | 3.2 | 3.35 | 3.55 |
| 14.0 | | | 1.15 | 2.15 | 2.7 | 2.85 | 3.0 |
| 16.0 | | | | 1.2 | 1.8 | 2.0 | 2.15 |
| 18.0 | | | | | 1.1 | 1.3 | 1.5 |
| 20.0 | | | | | | 0.75 | 0.95 |

A = Boom length B = Working radius

[BOOM]

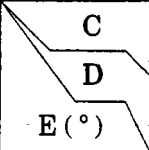
Unit : ton

| Outriggers minimum extended (2.57m) | | | | | | | |
|-------------------------------------|-------|--------|--------|--------|--------|--------|--------|
| A \ B (m) | 9.7 m | 16.0 m | 22.3 m | 28.6 m | 34.9 m | 38.05m | 41.2 m |
| 2.5 | 15.0 | 11.0 | 11.0 | 7.0 | | | |
| 3.0 | 15.0 | 11.0 | 11.0 | 7.0 | | | |
| 3.5 | 15.0 | 11.0 | 11.0 | 7.0 | 6.0 | | |
| 4.0 | 13.8 | 11.0 | 11.0 | 7.0 | 6.0 | 5.5 | |
| 4.5 | 11.3 | 10.5 | 10.4 | 7.0 | 6.0 | 5.5 | |
| 5.0 | 9.3 | 8.8 | 8.55 | 7.0 | 6.0 | 5.5 | 5.0 |
| 5.5 | 7.7 | 7.3 | 7.15 | 6.5 | 6.0 | 5.5 | 5.0 |
| 6.0 | 6.5 | 6.1 | 6.0 | 5.8 | 5.5 | 5.3 | 5.0 |
| 6.5 | 5.5 | 5.2 | 5.0 | 5.1 | 5.0 | 5.0 | 5.0 |
| 7.0 | 4.6 | 4.4 | 4.2 | 4.5 | 4.5 | 4.5 | 4.5 |
| 8.0 | | 3.2 | 3.0 | 3.5 | 3.6 | 3.7 | 3.8 |
| 9.0 | | 2.3 | 2.05 | 2.5 | 2.8 | 2.9 | 3.1 |
| 10.0 | | 1.5 | 1.35 | 1.8 | 2.1 | 2.3 | 2.5 |
| 11.0 | | 0.8 | | | | | |

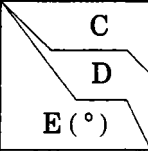
A = Boom length B = Working radius

(JIB)

Unit : ton

| Outriggers fully extended (7.25m) | | | | | | |
|--|-------|------|------|--------|------|------|
|  C D E (°) | 7.8 m | | | 12.5 m | | |
| | 5° | 25° | 45° | 5° | 25° | 45° |
| 83 | 3.5 | 2.4 | 1.5 | 2.5 | 1.4 | 0.8 |
| 76 | 3.5 | 2.4 | 1.5 | 2.5 | 1.4 | 0.8 |
| 74 | 3.25 | 2.2 | 1.5 | 2.25 | 1.4 | 0.8 |
| 72 | 2.95 | 2.1 | 1.48 | 2.05 | 1.3 | 0.8 |
| 70 | 2.65 | 1.95 | 1.45 | 1.9 | 1.25 | 0.8 |
| 68 | 2.4 | 1.85 | 1.43 | 1.75 | 1.2 | 0.79 |
| 65 | 2.1 | 1.7 | 1.4 | 1.55 | 1.1 | 0.77 |
| 60 | 1.7 | 1.45 | 1.3 | 1.3 | 0.95 | 0.74 |
| 55 | 1.3 | 1.2 | 1.15 | 1.08 | 0.85 | 0.72 |
| 50 | 0.75 | 0.65 | 0.6 | 0.6 | 0.5 | 0.48 |
| 48 | 0.55 | 0.45 | 0.4 | 0.4 | 0.35 | 0.33 |

Unit : ton

| Outriggers middle extended (5.5m) | | | | | | |
|--|-------|------|------|--------|------|------|
|  C D E (°) | 7.8 m | | | 12.5 m | | |
| | 5° | 25° | 45° | 5° | 25° | 45° |
| 83 | 3.5 | 2.4 | 1.5 | 2.5 | 1.4 | 0.8 |
| 76 | 3.5 | 2.4 | 1.5 | 2.5 | 1.4 | 0.8 |
| 74 | 3.25 | 2.2 | 1.5 | 2.25 | 1.4 | 0.8 |
| 72 | 2.95 | 2.1 | 1.48 | 2.05 | 1.3 | 0.8 |
| 70 | 2.65 | 1.95 | 1.45 | 1.9 | 1.25 | 0.8 |
| 68 | 2.4 | 1.85 | 1.43 | 1.75 | 1.2 | 0.79 |
| 65 | 1.75 | 1.55 | 1.4 | 1.45 | 1.1 | 0.77 |
| 60 | 0.8 | 0.7 | 0.65 | 0.6 | 0.5 | 0.45 |

C = Jib length D = Jib offset E = Boom angle

[JIB]

Unit : ton

| Outriggers middle extended (4.0m) | | | | | | |
|-----------------------------------|-------|------|------|--------|------|-----|
| C D E (°) | 7.8 m | | | 12.5 m | | |
| | 5° | 25° | 45° | 5° | 25° | 45° |
| 83 | 3.5 | 2.4 | 1.5 | 2.5 | 1.4 | 0.8 |
| 76 | 3.5 | 2.4 | 1.5 | 2.5 | 1.4 | 0.8 |
| 74 | 2.6 | 2.2 | 1.5 | 2.1 | 1.4 | 0.8 |
| 72 | 2.0 | 1.7 | 1.48 | 1.6 | 1.3 | 0.8 |
| 70 | 1.5 | 1.25 | 1.1 | 1.2 | 0.95 | 0.8 |

C = Jib length D = Jib offset E = Boom angle

NOTES:

- The total rated loads shown are for the case when the outriggers are set horizontally on firm ground. The values above the bold lines are based on the crane strength while those below are based on the crane stability.
- The weights of slings and hooks (390kg for a 45 ton capacity hook, 290kg for a 25 ton capacity hook and 100kg for a 4 ton capacity hook) are included in the total rated loads shown.
- The total rated load is based on the actual working radius including the deflection of the boom.
- The chart below shows the standard number of part lines for each boom length. The load per line should not exceed 4.1t for the main winch and 4.0t for the auxiliary winch.

| A | 9.7 m | 16.0 m | 22.3 m | 28.6 m | 34.9 m | 38.05m | 41.2 m | J |
|---|-------|--------|--------|--------|--------|--------|--------|---|
| H | 11 | 8 | 5(6) | 4 | 4 | 4 | 4 | 1 |

The value in () is for a 25t hook.

A = Boom length H = No. of part-line J = Jib/ Single top

- As a rule, free-fall operation should be performed only when lowering the hook alone. If a hoisted load must be lowered by free-fall operation, the load must be kept below 1/5th of the total rated load and sudden braking operations must be avoided.
- The total rated load for the single top shall be the value obtained by subtracting 300kg from the total rated load of the boom and must not exceed 4.0t.

(2) Without outriggers

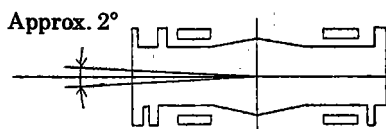
Unit : ton

| B (m) | Stationary | | | | | | Creep (travelling at 1.6km/h or less) | | | | | |
|----------|------------|------|------------|------|------------|------|---------------------------------------|------|------------|------|------------|------|
| | 9.7m BOOM | | 16.0m BOOM | | 22.3m BOOM | | 9.7m BOOM | | 16.0m BOOM | | 22.3m BOOM | |
| | F | G | F | G | F | G | F | G | F | G | F | G |
| 3.0 | 20.0 | 12.5 | 15.0 | 10.0 | | | 14.5 | 8.0 | 10.5 | 6.5 | | |
| 3.5 | 20.0 | 12.5 | 15.0 | 10.0 | | | 14.5 | 8.0 | 10.5 | 6.5 | | |
| 4.0 | 20.0 | 11.0 | 15.0 | 10.0 | 11.0 | 5.5 | 14.5 | 8.0 | 10.5 | 6.5 | 8.0 | 4.5 |
| 4.5 | 18.0 | 9.0 | 15.0 | 8.5 | 11.0 | 5.5 | 12.9 | 6.8 | 10.5 | 6.5 | 8.0 | 4.5 |
| 5.0 | 16.0 | 7.4 | 15.0 | 7.0 | 11.0 | 5.5 | 11.5 | 5.8 | 10.5 | 5.3 | 8.0 | 4.5 |
| 5.5 | 14.3 | 6.2 | 14.0 | 5.7 | 11.0 | 5.3 | 10.3 | 4.8 | 10.5 | 4.4 | 8.0 | 4.1 |
| 6.0 | 12.8 | 5.2 | 13.0 | 4.8 | 11.0 | 4.4 | 9.3 | 4.0 | 10.0 | 3.7 | 8.0 | 3.55 |
| 6.5 | 11.7 | 4.35 | 12.0 | 4.05 | 10.0 | 3.7 | 8.6 | 3.35 | 9.3 | 3.15 | 8.0 | 3.05 |
| 7.0 | 10.8 | 3.7 | 11.0 | 3.4 | 9.2 | 3.0 | 7.9 | 2.8 | 8.5 | 2.7 | 7.4 | 2.55 |
| 8.0 | | | 9.0 | 2.3 | 7.7 | 2.0 | | | 7.0 | 1.85 | 6.4 | 1.65 |
| 9.0 | | | 7.0 | 1.3 | 6.4 | 1.15 | | | 5.9 | 1.1 | 5.4 | 0.95 |
| 10.0 | | | 5.7 | 0.6 | 5.4 | | | | 4.8 | 0.5 | 4.5 | |
| 11.0 | | | 4.7 | | 4.5 | | | | 3.9 | | 3.7 | |
| 12.0 | | | 4.0 | | 3.8 | | | | 3.3 | | 3.1 | |
| 13.0 | | | 3.4 | | 3.2 | | | | 2.8 | | 2.6 | |
| 14.0 | | | | | 2.7 | | | | | | 2.2 | |
| 16.0 | | | | | 1.8 | | | | | | 1.5 | |
| 18.0 | | | | | 1.05 | | | | | | 0.85 | |

B = Working radius F = Front G = 360°

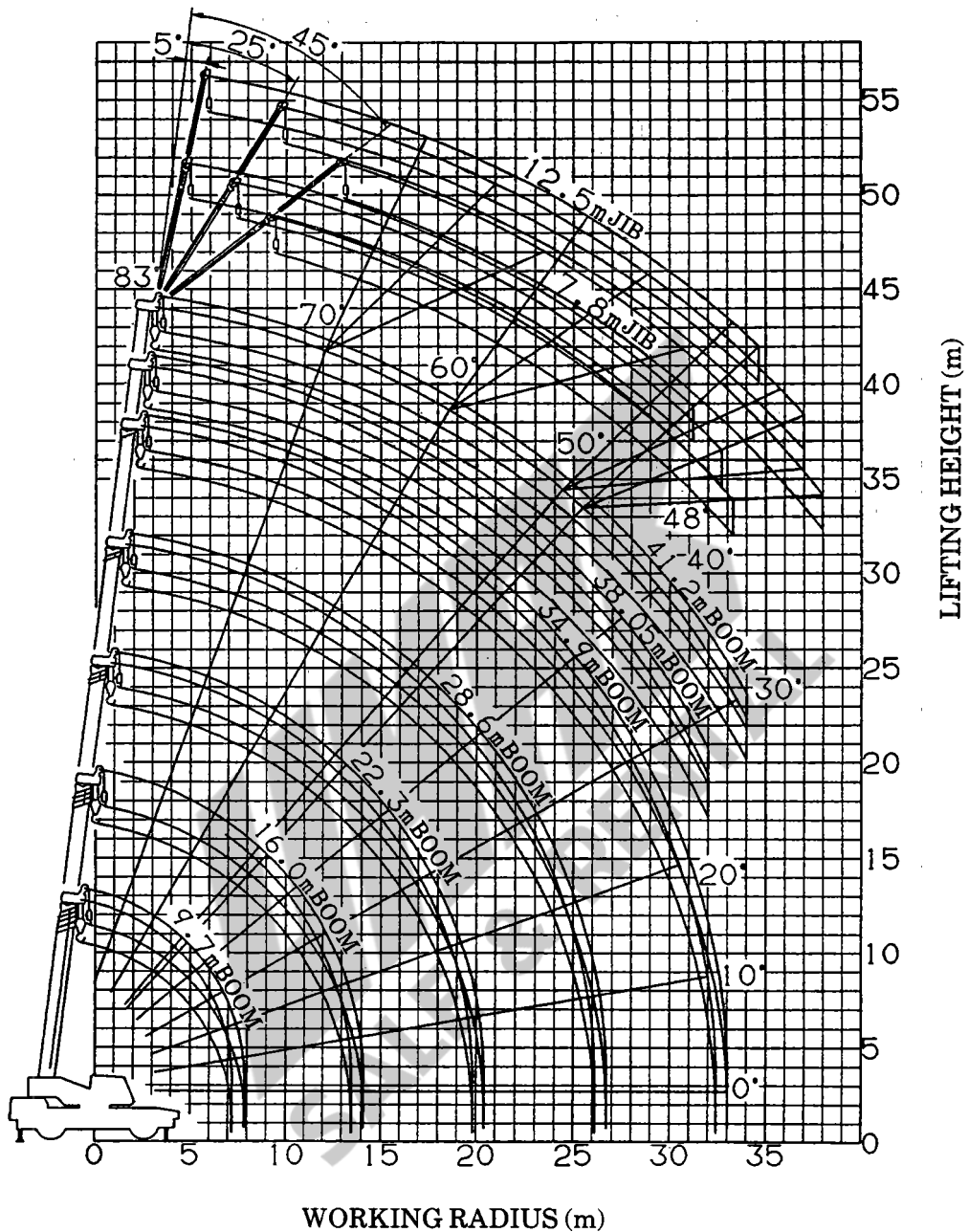
NOTES:

1. The total rated loads shown are for the case when the crane is set horizontally on firm ground. The values above the bold lines are based on the crane strength while those below are based on the crane stability. The foundation, working conditions, etc. should be taken into consideration adequately when using the crane for actual work. (Tire air pressure: 8.0kg/cm²).
2. The weights of the slings and hooks are included in the total rated loads shown.
3. The total rated loads are based on the actual working radii into which are included the deflection of the boom and the tires.
4. The total rated load for the single top shall be the value obtained by subtracting 300kg from the total rated load of the boom and must not exceed 4.0t.
5. Free-fall operations should not be performed without outriggers.
6. Booms over 22.3m in length and jibs should not be used without outriggers.
7. Perform "Over front" crane operations only when the "Over Front Range Indication Lamp" is lit. The boom must be kept inside a 2° area in front of the carrier when performing "Over front" operations without the outriggers.



8. The "Drive, Speed Selection" switch should be set to "4-wheel · Lo" for creeping while hoisting a load.
9. When creeping while hoisting a load, the swing brake should be applied, the load should be kept as close to the ground as possible but not touching the ground and the speed should be kept at 1.6km/h or less. In particular, any abrupt steering, starting or braking must be avoided.
10. Crane operations should not be performed when creeping while hoisting a load.

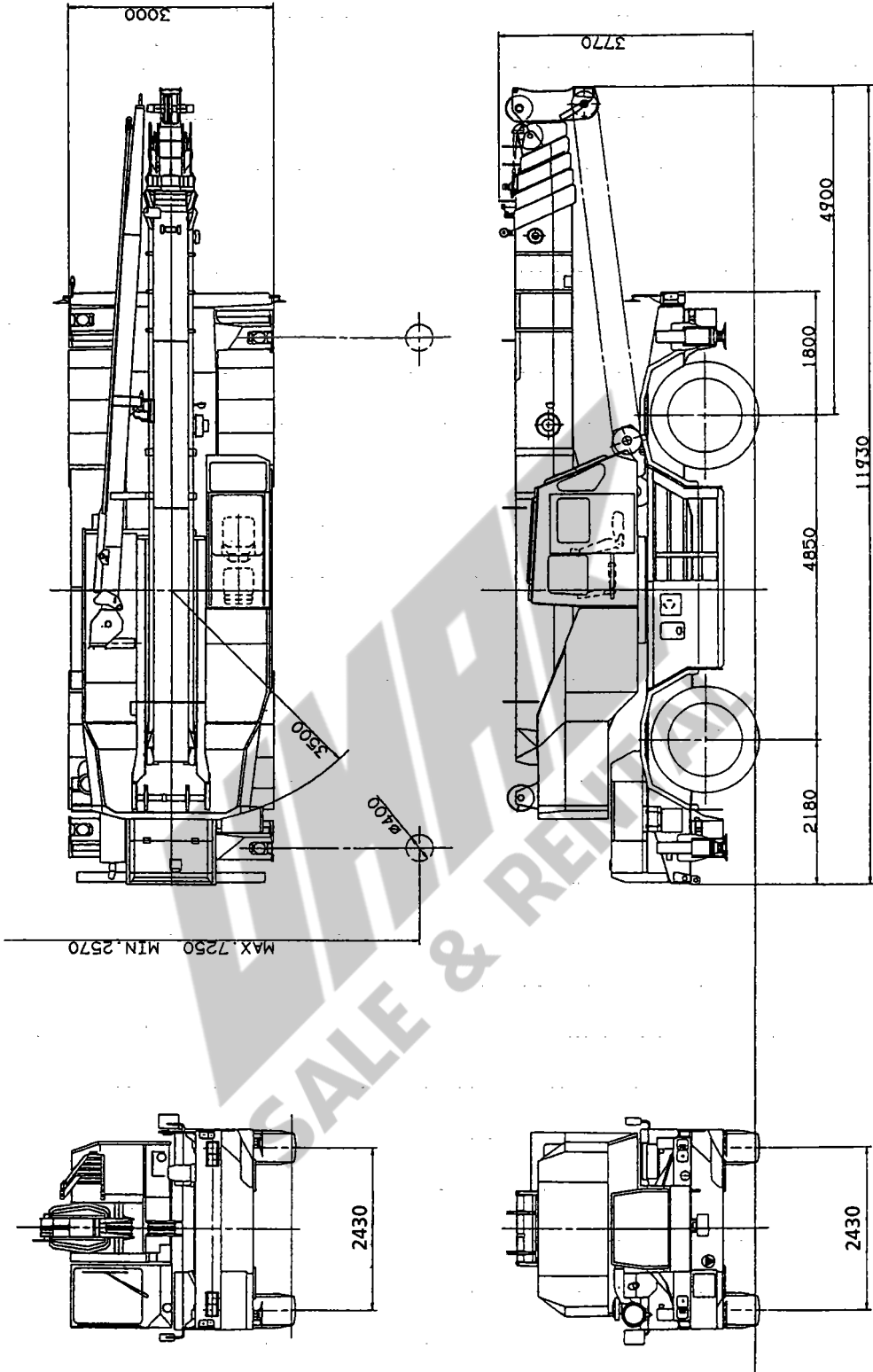
WORKING RADIUS - LIFTING HEIGHT



NOTES:

1. The deflection of the boom is not incorporated in the figure above.
2. The figure above is for the case when the outriggers are fully extended (360°).

DIMENSIONS (1/100)



◆ MEMO ◆

